FORM MR-1
(Revised November 1984)

RECEIVED
MAR 25 1987
DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS and MINING AND RECLAMATION PLAN

Based on Provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, General Rules and Regulations and Rules of Practice and Procedures, By Order of the Board of Oil, Gas and Mining.

Mine Name: Knolls Solar Ponds Mine Plan Date: _____

File No.: ACT/____/____ Date Received: _____

Operator: _____ DOGM Lead Reviewer: _____

Mineral(s) to be Mined: Salts from the Great Salt Lake

Please attach other sheets as needed and include cross-reference page numbers when used.

1. Name of Applicant or Company: AMAX Magnesium Corporation
   Corporation (X) Partnership ( ) Individual ( )

2. Address: Permanent: 238 North 2200 West
   Salt Lake City, Utah 84116
   Temporary: _____

3. Company Representative: Name: _____
   Title: _____
   Address: _____ Phone: _____

4. Location of Operation: County(ies) Tooele (see attached map)
   Township(s): _____ Range(s): _____ Section(s): _____
   Township(s): _____ Range(s): _____ Section(s): _____
   Township(s): _____ Range(s): _____ Section(s): _____

5. Owner(s) of record of the surface area within the land to be affected:

Name: United States Government. Address: _____
Name: State of Utah Address: _____
Name: _____ Address: _____
Name: _____ Address: _____

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6. Owner(s) of record of the minerals to be mined:

Name: United States Government Address: _____
Name: State of Utah Address: _____
Name: _____ Address: _____
Name: _____ Address: _____

7. Owner(s) of record of all other minerals, including oil and gas, within any part of the land to be affected:

Name: United States Government Address: _____
Name: State of Utah Address: _____
Name: _____ Address: _____

8. Have the above owners been notified in writing? (X) Yes, ( ) No. If no, why not? _____

9. Have you or any other person, partnership or corporation associated with you received an approval of a Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein? (X) Yes, ( ) No. If yes, list all approval numbers now under surety:

Stansbury Basin Solar Ponds

10. Source of Operator's legal right to enter and conduct operations on the land to be covered by this Notice:

Bureau of Land Management Right of Way
Tooele County Conditional Use Permit

11. Give the names and mailing addresses of every principal Executive, Office, Partner (or person performing a similar function) of Applicant:

	Name	Title	Address
A.	AMAX Magnesium		238 North 2200 West
B.			Salt Lake City, Utah 84116
C.			
D.			

12. Has the Applicant, any subsidiary or affiliate or any person, partnership, association, trust or corporation controlled by or under common control with the Applicant, or any person required to be identified by Item 11 ever had an approval of a Notice of Intention to Mine or Explore withdrawn or has surety relating thereto ever been forfeited? ( ) Yes, (X) No.

    If yes, please explain: _____

_____

_____

_____

_____

_____

Please note: Section 40-8-13 of the Act provides that information relating to the location, size or nature of the deposit, and marked confidential by the Operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the Operator, or until the mining operation has been terminated as provided in Subsection (2) of Section 40-8-21 of the Act. This material should be so marked and included on separate cross-referenced sheets.

13. All maps and plans prepared for submission shall be of adequate scale and detail to show topographic features and clearly indicate the following details:

    A. Location and delineation of the extent of the land previously affected, as well as the proposed surface disturbance.
    B. Existing active or inactive, underground or surface mined areas.
    C. Boundaries of surface properties, including ownership.
    D. Names and locations of:
        (1) Lakes, rivers, streams, creeks and springs.
        (2) Roads, highways and buildings.
        (3) Active or abandoned facilities.
        (4) Transmission lines within 500 feet of the exterior limits of land affected.
        (5) Gas and/or oil pipelines.
        (6) Site elevation.
    E. Drainage patterns of land affected:
        (1) Overburden or topsoil removal and storage areas.
        (2) Areas susceptible to erosion.
        (3) Natural waterways.
        (4) Constructed drainages, diversions, berms and sediment ponds (design calculations shall be included).
        (5) Receiving waters (State Health classification).
        (6) Directional flow of all surface waters (indicated by arrows).
    F. Known drill holes:
        (1) Location.
        (2) Status.

(3) Depths and thicknesses of:*
   a. Water bearing strata.
   b. Mineral deposits.
   c. Toxic or potentially toxic materials.
   d. Surficial or plant supporting material (topsoil and subsoil).

G. Locations of disposal and stockpile areas:
   (1) Topsoil and subsoil storage areas.
   (2) Overburden storage area.
   (3) Waste, tailings, rejected materials.
   (4) Raw ore stockpile(s).
   (5) Tailings-ponds and other sediment control structures.
   (6) Discharge points, water effluents (see #15[D]).

All maps should have a color code or other suitable legend used in preparation to clearly indicate surface features of the land affected. A general reference map completed on a 7.5 (1:24,000) USGS quadrangle sheet is recommended with additional large scale maps included for practical delineation of individual facilites, (e.g., 1:200, 1:500).

14. Acreage to be disturbed:

A. Minesite (operating, storage, disposal areas, etc.): Refer to Draft Environmental Assessment (Page 1)
B. Access/haul roads/conveyors: 150 acres
C. Associated on-site processing facilities: Not applicable

15. Describe mining method to be employed, including:
Refer to Draft Environmental Assessment (Pages 2 - 11).

A. Mining sequence:
   (1) Map delineating the yearly sequential disturbance (if surface mine) and/or surficial disturbance.
   (2) Narrative (including on-site processing or mineral treatment):
   Refer to Draft Environmental Assessment (Pages 2 - 11).

   Attach supplemental sheets and/or diagrams as necessary with cross reference to page number here: _____.

*Stratigraphic or lithologic logs if correlated to footage depths may be presented when labeled (maps or logs should be labeled confidential, if so desired).

B. If sedimentary deposit seam(s): None
(1) Thickness(es): _____
(2) Dip: _____
(3) Outcrop: _____

C. Will any underground workings or aquifers be encountered? ( ) Yes, (X) No. If yes, describe potential impacts and protection measures to be taken: See attached soil logs.

D. Describe any active discharge or proposed discharge of water from mine or site area. Include water quality data and lab test reports. If attached sheets or reports are included, cross reference to page number here: None.
We propose any water to be retained and reused on site; any extra water left on site will be evaporated.

16. Have all necessary water rights been appropriated? ( ) Yes, ( ) No. How will water be obtained? Please explain: _____

17. Proposed or estimated duration of mining operation: Refer to Draft Environmental Assessment (Page 20)
Will the permit term be for a lesser amount of time, subject to review? (e.g., for surety estimate reasons). ( ) Yes, ( ) No. If yes, how long? _____

18. Describe the construction and maintenance of access roads including:
A. Procedures (drainage and erosion control methods).
B. Cross section(s).
C. Profile(s) of proposed road grade(s).

- See the attached drawing entitled "Proposed Borrow Sources and Haul Roads".
- See Draft Environmental Assessment (Pages 12 - 13).
- Construction drawings will be provided in addition to this application (to be completed in May of 1987).
- The roadways will be graded and crowned to assure proper drainage.
- Drainage crossings will be constructed as required.

Attach supplemental diagrams and cross reference to page number here: _____.

19. Prior land use(s): Uninhabitable lake basin, not usable for grazing or agriculture.
Current land use(s): Same.
Possible projected or prospective future land use(s): Same.

20. Describe methods of tree and brush removal: There are no trees, only brush, grasses, and weeks; therefore, we plan to clear and grub, then strip the topsoil and stockpile nearby for future reclamation in areas with more than 5% vegetation cover.

Provide estimate of, and method of obtaining existing vegetation cover (%): Refer to Draft Environmental Assessment (Page 29).

What types of dominant vegetation are present? Refer to Draft Environmental Assessment (Pages 29 - 31).

Photographs and/or maps may be attached to these forms, cross reference to page number here: _____.

21. Soils (surficial plant supportive material) and overburden: Except where slope or rocky terrain make it impossible, all surficial materials suitable as a growth medium shall be removed, segregated and stockpiled according to its ability to support vegetation (as determined by soil analysis and/or practial revegetation experience) prior to any major excavation. (Suggested minimum requirements are the top six inches, or the "A" horizon, whichever is larger.)

A. What is the pH range of the soil before mining? Not determined - alkaline. Name of person or agency and method of determining pH: _____

Attach lab report if available. Cross reference page number here: _____.

B. Average depth of topsoil and subsoil to be stripped and stockpiled: See Appendix A . Calculated volume of soil to be stockpiled: 80,000 cu yds _____.

C. Describe the method for removing and stockpiling topsoil and subsoil, including measures to protect topsoil from wind and water erosion, compaction and pollutants: See Appendix A - Reclamation Recommendations.

D. Describe the method for removing and stockpiling overburden. Describe and discuss the acidity or alkalinity (pH) or other characteristics which would affect revegetation: See Appendix A - Reclamation Recommendations.

E. Rock subjected to processing such as waste rock, tailings, etc., and which is to be disposed of on- or off-site must be subjected to a toxicity analysis. The method of determination, results and suitable disposal methods must be explained in detail, including means for containment and long range stability*: Not applicable - there are no ore residues from this operation.

22. Describe the methods used to minimize public safety and welfare hazards during and after mining operations including:

A. Shaft, tunnel and drill hole closure.
B. Disposal of trash, scrap metal and wood and extraneous debris, waste oil and solvents, unusable buildings and foundations, sewage and other materials incident to mining.
C. Posting of appropriate warning signs and/or fences or berms to act as barriers (e.g., above highwalls) in locations where public access is available.

(See attached Commitment to Rule M-10 and Variance Request.)

*"Toxic" means any chemical or biological or adverse characteristic of the material involved which could reasonably be expected to negatively affect ecological or hydrological systems or could be hazardous to the public safety and welfare.

23. Grading and soil redistribution.

A. Attach pre- and postmining contour cross sections, typical of regrading designs. Cross reference to page number here: _____.

B. Describe the method(s) of overburden replacement and stabilization and highwall elimination, including: (a) slope factors; (b) lift heights; (c) compaction; (d) terracing, etc., (e) also include testing procedures: Overburden (topsoil) shall be replaced with earth-moving equipment and compacted by the same equipment traffic. Lift heights shall be 6 inches or as required to use on topsoil removed from the site before mining.

C. What method of spreading topsoil and subsoil or upper horizon material on the regraded area will be employed? Bulldozers and graders.

1. Indicate the approximate depth of soil cover after final surfacing 6 inches.
2. What tests will be performed to adequately evaluate the potential of the soil to successfully support intended revegetation? None; native topsoil will be reused.
3. What soil amendments or fertilizers will be needed as an aid to revegetation?
   Type: None. Rate: _____
   Type: _____ Rate: _____
   Type: _____ Rate: _____
4. What additional surface preparations will be used? Describe (a) drainage, erosion and sediment control measures; (b) maximum slope characteristics; and (c) highwall reclamation.

5. Describe methods which may be particularly applicable to waste disposal areas determined to be potential problem areas.

Not applicable.

D. Describe plans for either leaving or reclaiming the roads and pads associated with the operation.

(See attached Commitment to Rule M-10 and Variance Request.)

24. Impoundments: All evaporation, tailings and sediment ponds; spoil piles, fills, pads and regraded areas shall be self-draining and nonimpounding when abandoned unless previously approved as an impounding facility by a lawful state or federal agency. In view of this, please describe the reclamation of all related areas in the operation and include pertinent items enumerated in C, 1-5 above.

(See attached Commitment to Rule M-10 and Variance Request.)

25. Revegetation plans:

A. What organization, agency or person will specifically be performing the revegetation? _____.

B. Will the affected area be subject to livestock or wildlife grazing? ( ) Yes, (X) No. Will vegetation protection be needed to allow for a determination of the successful revegetation criteria outlined in the Mined Land Reclamation Act, Rule M-10(12)? ( ) Yes, ( ) No. If yes, what measures will the operator take?

C. Will irrigation be used? ( ) Yes, ( ) No. Type: _____. For how long? _____.

D. Test plots initiated during the early stages of mine development provide good bases from which a successful revegetation program can be adapted for later implementation. Will test plots be employed? ( ) Yes, (X) No. If yes, describe on an additional sheet(s) and attach. Cross reference page number here and show location on facilities map: _____.

E. Please attach a revegetation plan and schedule including:
1. Species to be used.
2. Rate of seed application/acre.
3. Season to be planted.
4. Seedbed preparation techniques.
5. Planting location, slope face direction, variability, method of application, covering, etc.
6. Mulch and fertilizer application, if used.

Refer to Draft Environmental Assessment, Appendix A.

F. Describe any other maintenance procedures which may be used, if needed, to guarantee successful revegetation: None.

26. Please provide a reclamation schedule including:

A. Estimated time for construction.
B. Estimated time for interim reclamation.
C. Estimated duration of the mining operation.
D. A time table for the accomplishment of each major step in the reclamation plans. Attach the schedule and cross reference to the page number here: (See attached reclamation schedule)

27. A surety guarantee must be provided for the mining operation (see Rule M-5 Mined Land Reclamation Act). In calculating this amount, the Division will consider the following major steps based on the information provided in this report:

A. Clean up and removal of structures.
B. Backfilling, grading and contouring.
C. Topsoil and subsoil redistribution and stabilization.
D. Revegetation (i.e., preparation, seeding, mulching, irrigation).
E. Labor.
F. Safety and fencing.
G. Monitoring, and reseeding if necessary.

To assist the Division, the operator may attach a list of costs and factors which would satisfy these areas. Substantiation of these factors, i.e., unit costs and how they are derived, should accompany the list. Cross reference the page number here: (See attached reclamation requirement description)

28. A request for a variance from specific commitments to Rule M-10 (Reclamation Standards) of the Mined Land Reclamation Act may be submitted with adequate written justification. If after presentation of information adequately detailing the situation, a determination is made that finds a portion of the rule inapplicable, a variance may be granted by the Division.

I hereby commit the applicant to comply with Rule M-10, "Reclamation Standards" in its entirety, as adopted by the Board of Oil, Gas and Mining on March 22, 1978.

The applicant will achieve the reclamation standards for the following categories as outlined in Rule M-10 on all areas of land affected by this mine, unless a variance is granted in writing by the Division.

Rule	Category of Commitment	Variance Requested?
M-10(1)	Land Use	
M-10(2)	Public Safety and Welfare	
M-10(3)	Impoundments	
M-10(4)	Slopes	Yes
M-10(5)	Highwalls	Yes
M-10(6)	Toxic Materials	
M-10(7)	Roads and Pads	
M-10(8)	Drainages	
M-10(9)	Structures and Equipment	
M-10(10)	Shafts and Portals	Yes
M-10(11)	Sediment Control	Yes
M-10(12)	Revegetation	Yes
M-10(13)	Dams	Yes
M-10(14)	Soils	Yes

I believe a variance is justified on a site-specific basis for the previous subsections of Rule M-10 as indicated. A narrative statement explaining these concerns is attached.

STATE OF Utah

COUNTY OF Tooele

I, Lee R. Brown, having been duly sworn depose and attest that all of the representations contained in the foregoing application are true to the best of my knowledge; that I am authorized to complete and file this application on behalf of the Applicant and this application has been executed as required by law.

Signed: Lee R. Brown

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 25th day of March, 1987.

Notary Public: Elizabeth Silva

My Commission Expires: Oct. 17, 1990

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides for maintenance of confidentiality concerning certain portions of this report. Please check to see that any information desired to be held confidential is so labeled and included on separate sheets or maps.

Only information relating to the location, size or nature of the deposit may be protected as confidential.

Confidential Information Enclosed: (X) Yes ( ) No

MINE MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.

2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.

3. Maps must have a title block with:

   A. Map title.
   B. Name and address of permittee.
   C. Permit and amendment numbers.
   D. Annual report period.
   E. Scale, north arrow, contour interval, date of photography, etc.

4. All maps must show:

   A. Legal subdivisions.
   B. Permit area boundary clearly shown and labelled.
   C. Amendment areas clearly shown and labelled.
   D. Contour features.

5. The following features should all be clearly identified:

   A. Topsoil stockpiles (numbered and with volumes).
   B. Settling ponds and sediment control structures.
   C. Haul roads.
   D. Pits identified by location, name, number, etc.
   E. Ramps (numbered).
   F. Out-of-pit spoil dumps.
   G. All waste disposal sites including, but not limited to:
      1. Landfill sites.
      2. Carbonaceous waste dumps.
   H. Diversion ditches.
   I. Monitoring sites.

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COMMITMENT TO RULE M-10 AND VARIANCE REQUEST

RULE M-10 (1) Land Use

The Knolls Solar Pond System, if and when abandoned, will be left in a condition that is capable of supporting a use that is compatible with past and present probable land uses.

(2) Public Safety and Welfare

There will be no shafts or portals on site. Disposal of trash, scrap metal, and wood will be made in a manner approved by the Division and in accordance with the Rules and Regulations of the Division of Health. Exploratory drill holes will be plugged and capped. Warning signs will be posted at areas of public access.

(3) Impoundments

Any area forming an impoundment will be eliminated as specified by the BLM and DOGM at project termination.

(4) Slopes

No areas requiring sloping exist within the solar pond system and a variance is requested from this aspect of Rule M-10.

(5) Highwalls

No highwalls exist within the solar pond system and a variance is requested from this aspect of Rule M-10.

(6) Toxic Materials

All toxic material or potentially toxic material shall be removed from the site and disposed of in accordance with Federal and State Regulations.

(7) Roads and Pads

At the discretion of the BLM and DOGM, all on-site roads will be reclaimed or stabilized when no longer required for operations.

(8) Drainage

All material channels and associated flood plains will be retained and will not be blocked.

(9) Structures and Equipment

All structures, utility connections, and associated equipment will be removed from the surface at the end of operations.

(10) Shafts and Portals

A variance is requested from this provision, as there will be no shafts or portals in the solar pond system.

(11) Sediment Control

A variance is requested from this provision, as this operations does not generate sediment, in this sense.

(12) Revegetation

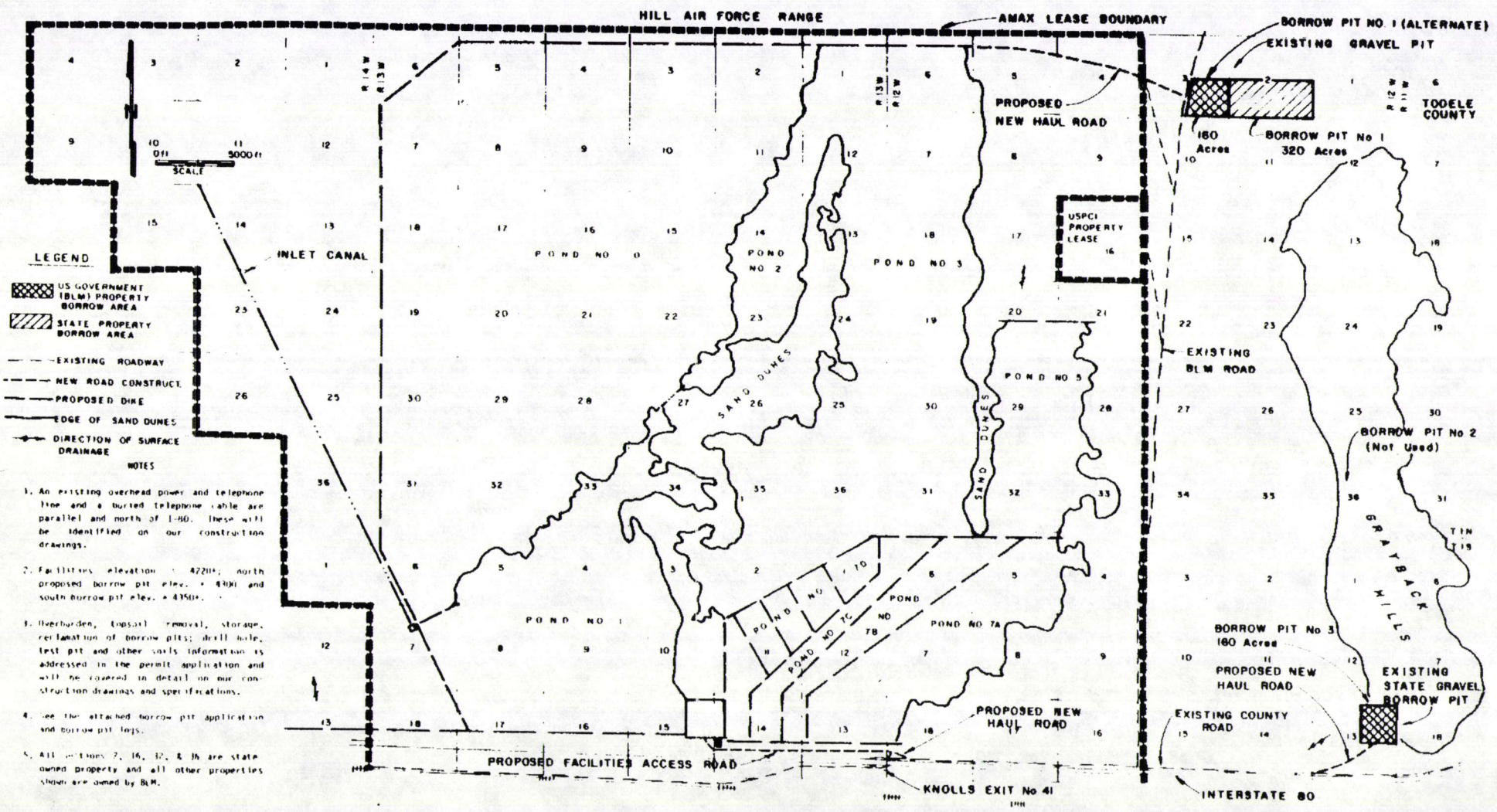
A partial variance is requested, because the solar pond area has less than 5% vegetation cover. In areas of more than 5% cover, revegetation will be performed.

(13) Dams

Dikes will provide a method of containing a valuable mineral deposit after this project is complete. It is therefore inadvisable to reclaim these dikes. A variance is requested.

(14) Soils

A partial variance is requested, because the vast majority of soils will not support vegetation. Soils with substantial vegetation growth will be stockpiled and protected for reclamation use.



NOTES

1. An existing overhead power and telephone line and a buried telephone cable are parallel and north of I-80. These will be identified on our construction drawings.

2. Facilities elevation = 4220ft; north proposed borrow pit elev. = 4400 and south borrow pit elev. = 4350ft.

3. Overburden, topsoil removal, storage, reclamation of borrow pits; drill hole, test pit and other soils information as addressed in the permit application and will be covered in detail on our construction drawings and specifications.

4. See the attached borrow pit application and borrow pit logs.

5. All sections 7, 16, 32, & 36 are state owned property and all other properties shown are owned by BLM.

REFERENCE DRAWINGS	REV NO	DATE	REVISIONS	BY	CHK	APP	APPROVALS	DATE
	8	3/18/87	CHANGES PER CLIENT REVIEW				DRAWN RAHA	3/87
							CHK'D MLT	3/87
							APP	
							APP	

MORRISON-KNUDSEN ENGINEERS, INC.

V.O. NO 1935 DWG NO 00-34-002

PROJ NO

SHT ___ OF ___

TITLE

PROPOSED BORROW SOURCES AND HAUL ROADS

AMAX INC.

AMAX MAGNESIUM
238 N 2200 W
SALT LAKE CITY, UTAH 84116

REV 8